

ABSTRACT

A method of propagating changes in a design model identifies a change to a changed element, creates steps to carry out the change, creates additional steps based on the change and on relationships between the changed element and other elements in the design model, and executes the steps to alter the model in a manner that reflects the change. The steps may be created in a manner that depends on other steps that have been created. A system for regenerating a design model comprises a model element, a step propagator, and a step executor. The step propagator receives a first step that represents changes in the model element, and produces a second step that represents other changes in the model element that are dependent on the first step, and the step executor executes the first and second steps.

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